(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization**

International Bureau



A COREN BRITARIO DI CORRIGO DERIA CREAL RENA DEL RENA DEL RENA CORENTA DEL CORENTA DEL CONTROLO DE CORENTA DEL

(43) International Publication Date 17 November 2005 (17.11.2005)

PCT

(10) International Publication Number WO 2005/109394 A1

(51) International Patent Classification7:

G09G 3/36

(21) International Application Number:

PCT/JP2005/008740

(22) International Filing Date:

6 May 2005 (06.05.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2004-137504

6 May 2004 (06.05.2004)

2005-130441

JP 27 April 2005 (27.04.2005) JP

- (71) Applicant (for all designated States except US): CANON KABUSHIKI KAISHA [JP/JP]; 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501 (JP).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): ASAO, Yasufumi [JP/JP]; 1192-15, Onna, Atsugi-shi,, Kanagawa 243-0032
- (74) Agent: YAMADA, Ryuichi; Toko International Patent Office, Hasegawa Bldg. 4F, 7-7, Toranomon 3-chome, Minato-ku, Tokyo 105-0001 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

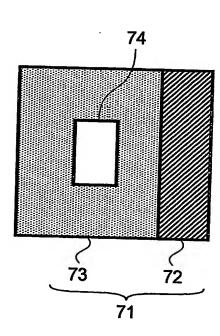
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COLOR DISPLAY APPARATUS



(57) Abstract: A color display apparatus is consituted by a display panel which has light reflection area and a light transmission area for each pixel, and a light source for causing light to enter said display panel from a back surface of said display panel. The light reflection area includes plurality of subareas including a first subarea in which the incident light is modulated and reflected in a brightness change range within which a brightness of a reflected light is variable and a hue change range within which a hue of a chromatic color assumed by a reflected light is variable and a second subarea provided with a color filter in which incident light is modulated and reflected in a brightness change range within which a brightness of a reflected light is variable. In the light transmission area, the incident light is modulated in a brightness change range within which a brightness of a transmitted light is variable. The light source is periodically switched at least between two lights different in color. The apparatus further comprises means for performing the modulation in the light transmission area in synchronism with the switching in color of said light source.

